

$$4) U_8 = \dots \leftarrow \sum M_{(8)} = 0$$

$$\sum M_{(8)} = 0 \quad M_{(8),0} - H \cdot y_{(8)} - U_8 \cdot h_8 \cdot \cos 38 = 0$$

$$U_8 = \frac{1}{\cos 38} \left( \frac{M_{(8),0}}{h_8} - H \frac{y_{(8)}}{h_8} \right)$$

$$\tan 38 = \frac{5}{10} = \frac{1}{2}$$

$$\cos 38 = \frac{2}{\sqrt{5}}$$

$$y_{(8)} = 15 - 5 \tan 40 - 15 \cdot \frac{1}{5} = 15 - 5 \cdot \frac{1}{5} - 3 = 11,375$$

$$y_8 = 10 - 5 \cdot \frac{1}{5} - 10 \cdot \frac{1}{2} = 4,375$$

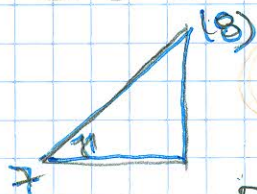
$$h_8 = 11,375 - 4,375 = 7$$

$$U_8 = \frac{\sqrt{5}}{2} \left( \frac{M_{(8),0}}{7} - H \frac{11,375}{7} \right) = \frac{\sqrt{5}}{14} M_{(8),0} - \frac{11,375 \sqrt{5}}{14} H$$

$$5) D_8 = \dots \leftarrow \sum M_8 = 0$$

$$\sum M_8 = 0$$

$$M_{8,0} + D_8 \cdot h_8 \cdot \cos 38 + D_8 \cdot h_8 \cos 48 - H \cdot y_8 = 0$$



$$\tan 48 = \frac{y_{(8)} - y_7 - 5 \cdot \tan 40}{5} = \frac{11,375 - 6,25 - 5 \cdot 1/8}{5} = \frac{4,5}{5} = \frac{9}{10}$$

$$D_8 = \frac{1}{\cos 48} \left( -\frac{M_{8,0}}{h_8} - D_8 \cos 38 + H \frac{y_8}{h_8} \right)$$

$$= \frac{\sqrt{181}}{10} \cdot \left( -\frac{M_{8,0}}{7} - \left( -\frac{\sqrt{26}}{275} M_{7,0} + \frac{6,25 \sqrt{26}}{275} H \right) \cdot \frac{2}{\sqrt{5}} + H \cdot \frac{4,375}{7} \right)$$

$$= -\frac{M_{8,0}}{70} \sqrt{181} + \frac{\sqrt{181} \cdot \sqrt{26}}{275} \cdot \frac{2}{\sqrt{5}} M_{7,0} - \frac{2 \cdot 6,25 \sqrt{26} \cdot \sqrt{181}}{275 \cdot \sqrt{5}} H + \frac{\sqrt{181} \cdot 4,375}{70} H$$

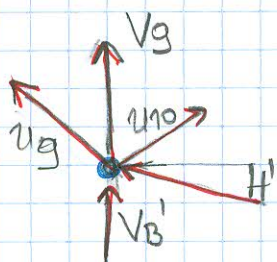
$$D_8 = \frac{\sqrt{181}}{10} \cdot M_{8,0} + 0,223119 M_{7,0} - 0,5536477 H$$

$$\frac{H}{\cos 40} \cdot \sin 40 = H \tan 40$$

$$6) V_9 = \dots$$

$$\sum V = 0 \quad V_9 + V_8' + U_{10} \cdot \sin 310 + U_9 \cdot \sin 39 + H \tan 40 = 0$$

$$V_9 = -V_8' - U_{10} \sin 310 - U_9 \sin 39 - H \tan 40$$



$$U_{10}, U_9 = \dots$$

$$a) U_{10} = \dots \leftarrow \sum M_{(9)} = 0$$

$$\sum M_{(9)} = 0$$

$$M_{(9),0} + U_{10} \cdot h_9 \cdot \cos 310 = 0$$